



**ORCHESTRA**

# Production

Part 1 of 3

**This guide will introduce you to the concepts, basics and main processes of Orchestrated Production. Let's get Brewing!**



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# Production concepts

## Overview



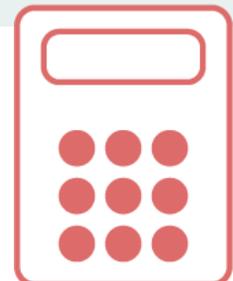
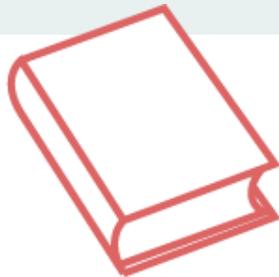
The production process is when making your Beer happens! OBEER will be there by your side as you plan what needs to be brewed, and execute on that plan. The software follows your day to day on the floor, so you know what stage your liquid product is at, where your liquid is located, and the next steps to take. OBEER is an inventory management system. This means that inventory has to be consumed, in order to make more inventory:

**For Example:** during brewing, raw materials such as malts and hops are consumed by wort. During fermentation, wort is consumed by green beer. During filtration, green beer is consumed by a dry hop, and then the dry hop is consumed by Brite beer. Eventually, Brite beer will be consumed by packaging. And finally, finished product will be enjoyably consumed by your Customers!



### Why Produce through OBEER?

Gives your business visibility into the components used to create beer, retains your tried and true recipes, impacts inventory, captures TTB information, ties heavily into the financial impact your produced goods have on your business.

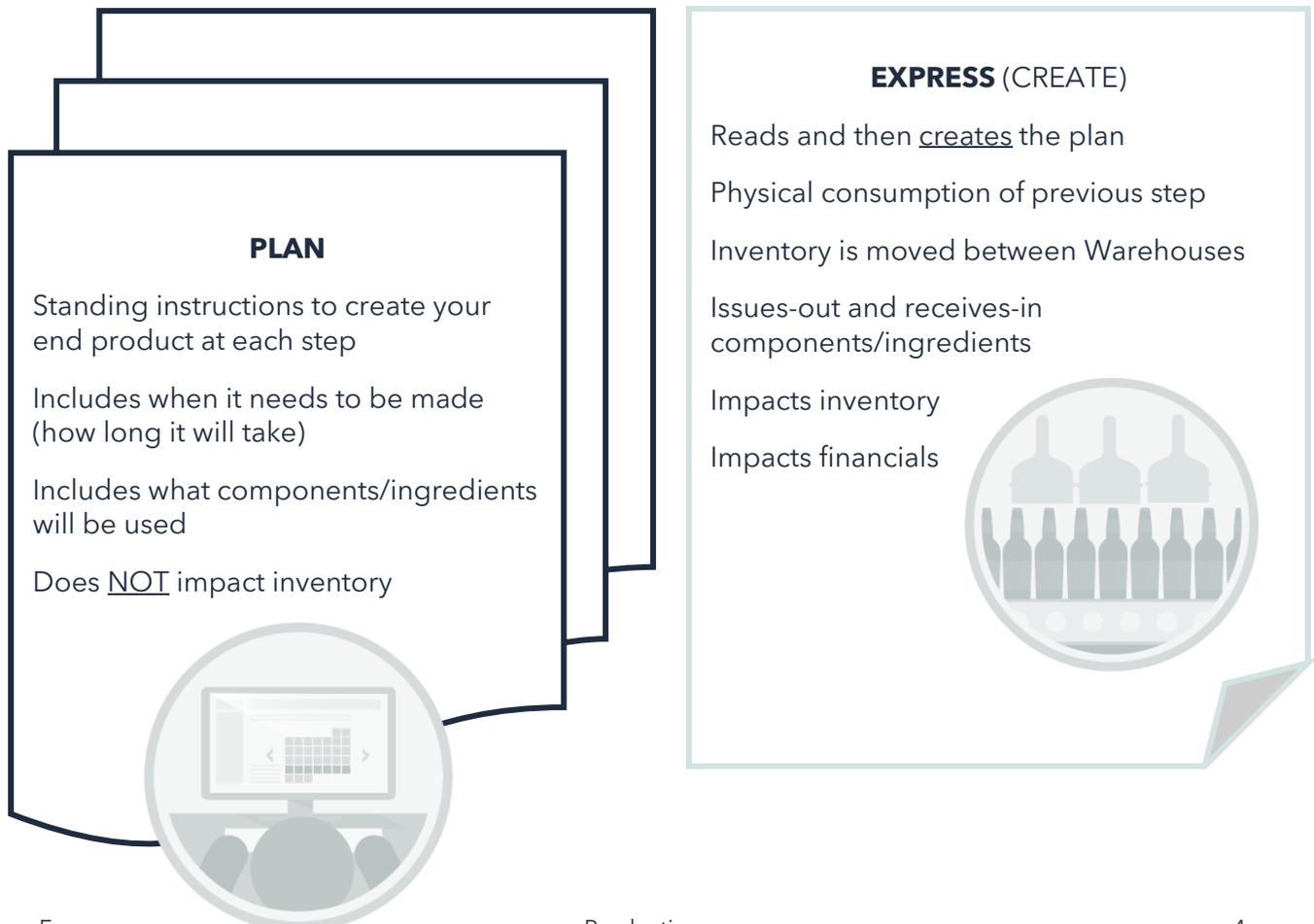




## Process flow



OBEER Production is broken out into two main processes:  
**Planning & Expressing**





## Terminology

**PROCESS** - Method in which you're trying to create an item (liquid)

*Brewing | Fermentation | Optional Steps | Filtration | Packaging*

**COMPONENTS** - Materials being used during each process

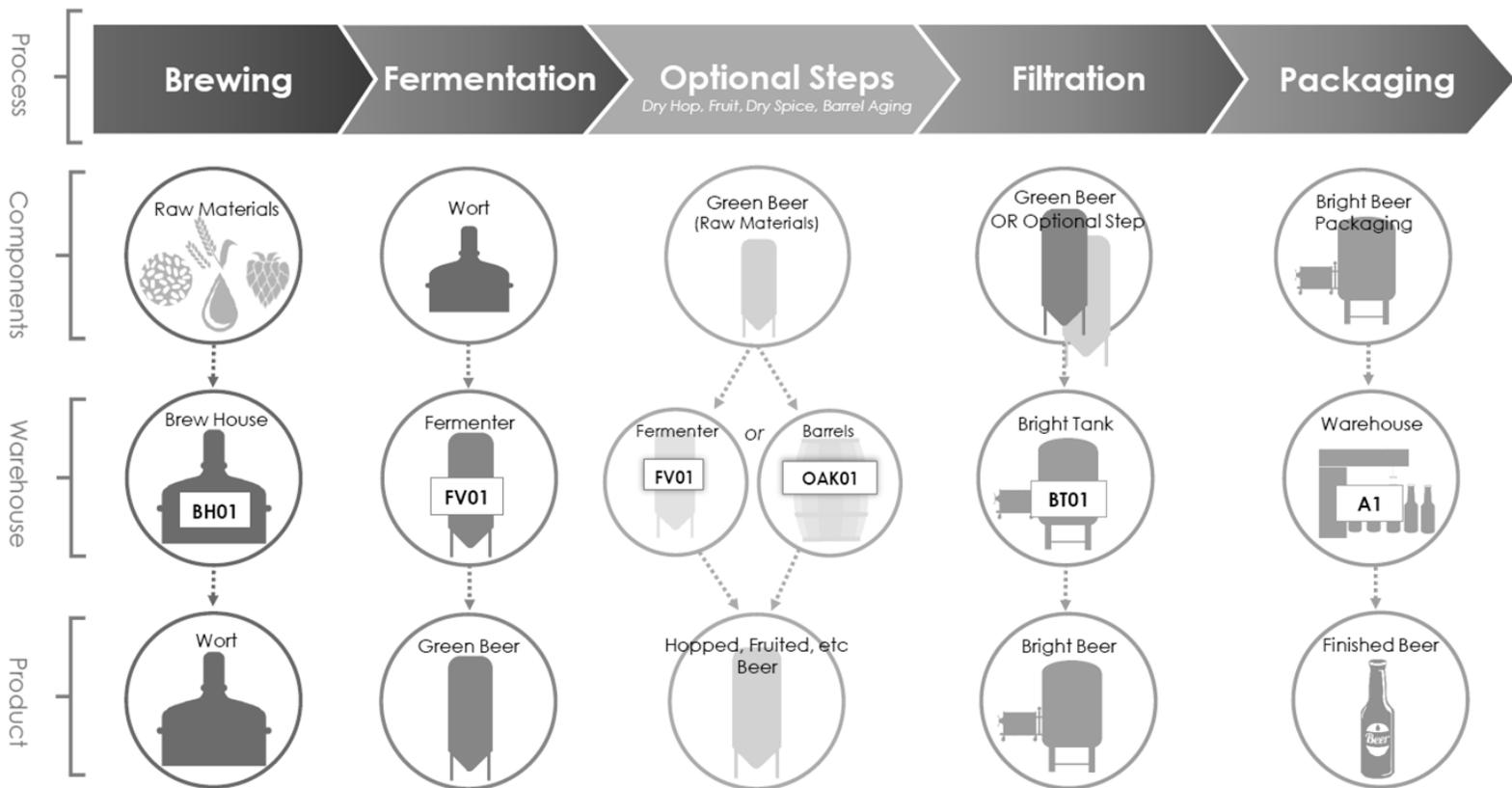
*Raw Materials | Wort | Green Beer | Optional Step | Brite Beer | Packaging Materials*

**WAREHOUSE** - Location of components

*Brew House | Fermenter | Barrels | Brite Tank | Main Warehouse*

**PRODUCT** - The end item being produced

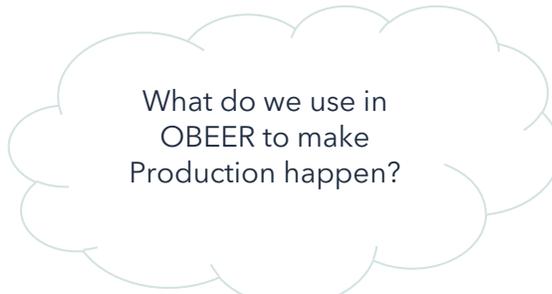
*Wort | Green Beer | Dry Hopped Beer | Brite Beer | Finished Beer*



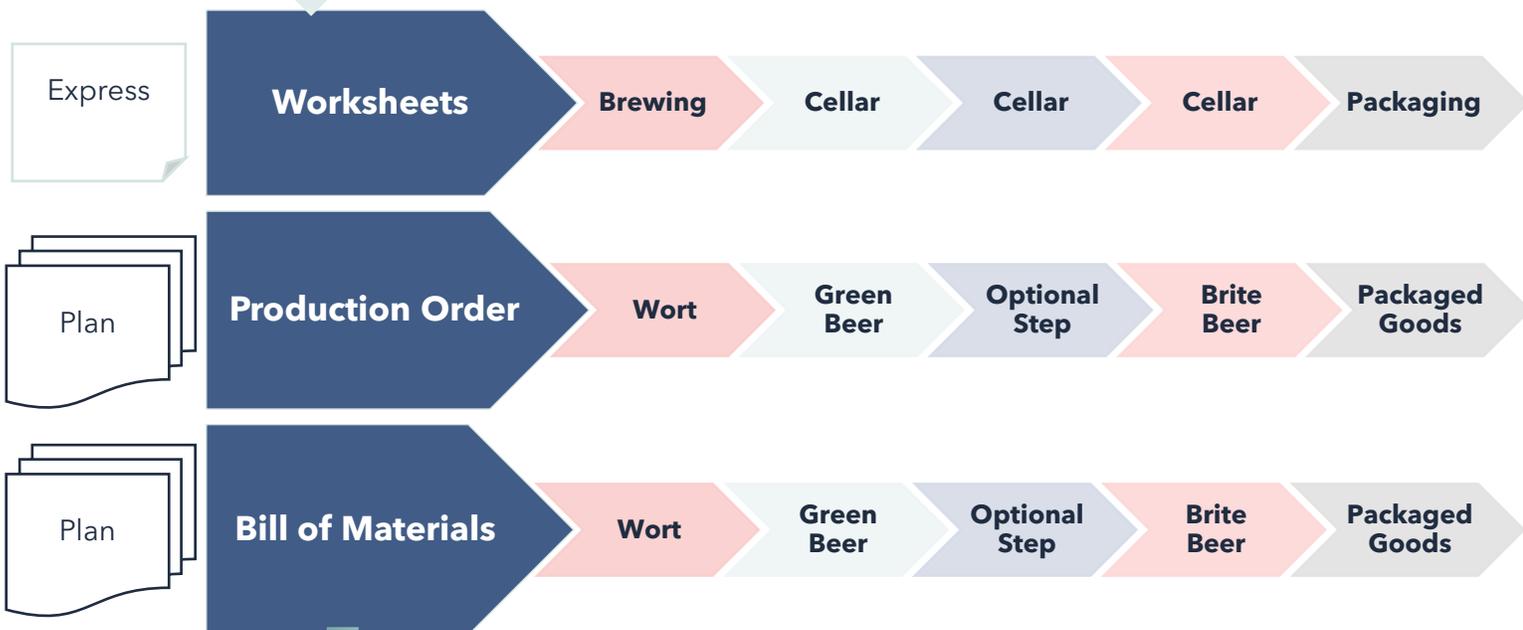


# Production basics

## Production flow



Great question! There will be 3 main functions that impact each process & product!



Let's get a grasp on each of these functions:





## Finding a BoM

Item Master Data > Find Item (i.e. Wort) > Right Click > Bill of Materials

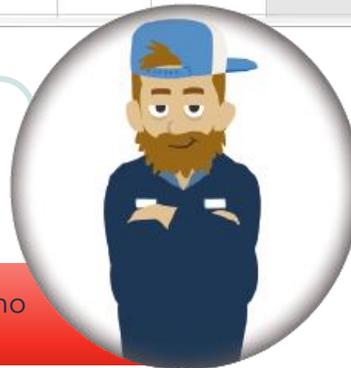
**Navigation Tip!**  
You can also drag and drop the Bill of Materials function into your Common Functions box:  
Modules > Production > Bill of Materials

#	Type	No.	Description	Quantity	UoM N...	Warehouse	Issue Method	Price List	Unit Price	Total
1	Item	RM5005	Malt 2-Row Bulk	6,300	lb	A1	Manual	Last Purcha	\$ 0.8200	\$ 5,166.0000
2	Item	RM5022	Malt Caravienne	600	lb	A1	Manual	Last Purcha	\$ 1.0000	\$ 600.0000
3	Item	RH5006	Hops - Cascade	44	lb	A1	Manual	Last Purcha	\$ 6.5600	\$ 288.6400
4	Item	RH5018	Hops - Liberty	22	lb	A1	Manual	Last Purcha	\$ 6.3200	\$ 139.0400
5	Item	L1001	Brewhouse Labor	4	Hr	A1	Backflush	Last Purcha		
6	Item							Last Purcha		

### Real Life!

Bruno wants to double check his recipe for Amber Ale Wort (W1001)

Let's take a closer look with Bruno





# BoM 411

Product that will be made

How many BBLs are made with this recipe?

Where will my product reside?

Ingredients (can drill into individual)

Quantity of ingredients needed to make product above

Unit of Measure for Quantity

Warehouse (where do ingredients reside?)

Price per Unit

Update all open PdOs (carbon copies of this BoM) with any ingredient changes

View versions of recipe

View built-in procedures on how to make product listed above

#	Type	No.	Description	Quantity	UoM N...	Warehouse	Issue Method	Price List	Unit Price	Total
1	Item	RM5005	Malt 2-Row Bulk	6,300	lb	A1	Manual	Last Purcha:	\$ 0.8200	\$ 5,166.0000
2	Item	RM5022	Malt Caravienne	600	lb	A1	Manual	Last Purcha:	\$ 1.0000	\$ 600.0000
3	Item	RH5006	Hops - Cascade	44	lb	A1	Manual	Last Purcha:	\$ 6.5600	\$ 288.6400
4	Item	RH5018	Hops - Liberty	22	lb	A1	Manual	Last Purcha:	\$ 6.3200	\$ 139.0400
5	Item	L1001	Brewhouse Labor	4	Hr	A1	Backflush	Last Purcha:		
6	Item							Last Purcha:		

Product No. W1001  
 Product Description Wort - Amber Ale  
 BOM Type Production  
 X Quantity 100  
 Warehouse BH01  
 Price List Last Purchase Price  
 Distr. Rule  
 Project

Product Price \$ 62.0410



**Real Life!**

Sweet!!! The Amber Ale is good to go! Let's review the BoMs for Bruno's IPA #1003, from wort to Brite beer, and see how they fit in to one another.



Product that will be made

How many BBLs are made with this recipe?

Where will my product reside?

Recipe Ingredients that will be consumed

Bill of Materials

Product No. **W1003** X Quantity **30** Warehouse **BH01**

Product Description **Wort - IPA** Price List **Last Purchase Price**

BOM Type **Production** Distr. Rule Project

No.	Description	Quantity	UoM N...	Warehouse	Issue Method	Price List	Unit Price	Total	Comments
RM5005	Malt 2-Row Bulk	1,000	lb	A1	Manual	Last Purcha:	\$ 0.8200	\$ 820.0000	
RM5028	Maris Otter supersack	200	lb	A1	Manual	Last Purcha:	\$ 0.8600	\$ 172.0000	
RM5024	Malt C-45	100	lb	A1	Manual	Last Purcha:	\$ 0.9100	\$ 91.0000	
RH5006	Hops - Cascade	50	lb	A1	Manual	Last Purcha:	\$ 7.0000	\$ 350.0000	
RH5012	Hops - Fuggle	1	lb	A1	Manual	Last Purcha:	\$ 5.1142	\$ 5.1142	

Bill of Materials

Product No. **GB1003** X Quantity **90** Warehouse **F99**

Product Description **Green Beer - IPA** Price List **Last Purchase Price**

BOM Type **Production** Distr. Rule Project

#	Type	No.	Description	Quantity	UoM N...	Warehouse	Issue Method	Price List	Unit Price	Total	Comments
1	Item	W1003	Wort - IPA	90	BBL	BH01	Manual	Last Purcha:	\$ 44.1163	\$ 3,970.4670	
2	Item							Last Purcha:			

Bill of Materials

Product No. **DH1003** X Quantity **1** Warehouse **F99**

Product Description **Dry Hopped Beer - IPA** Price List **OR**

BOM Type **Production** Distr. Rule Project

#	Type	No.	Description	Quantity	UoM N...	Warehouse	Issue Method	Price List	Unit Price	Total	Comments
1	Item	GB1003	Green Beer - IPA	1	BBL	F99	Manual	OR			
2	Item	RH5009	Hops - Citra	1	lb	A1	Manual	OR	\$ 7.1200	\$ 7.1200	
3	Item							OR			

Bill of Materials

Product No. **BB1003** X Quantity **81** Warehouse **B99**

Product Description **Bright Beer - IPA** Price List **OR**

BOM Type **Production** Distr. Rule Project

No.	Description	Quantity	UoM N...	Warehouse	Issue Method	Price List	Unit Price	Total	Comments
DH1003	Dry Hopped Beer - IPA	90	BBL	F99	Manual	OR			

**Take Note!** Any BoM after Wort (i.e. Dry Hop & Packaging) should consume the *liquid* as the very first item.

Bill of Materials

Product No. **1003-K12** X Quantity **1** Warehouse **A1**

Product Description **IPA - Keg 1/2 BBL** Price List **OR**

BOM Type **Production** Distr. Rule Project

No.	Description	Quantity	UoM N...	Warehouse	Issue Method	Price List	Unit Price	Total	Comments
BB1003	Bright Beer - IPA	0.5	BBL	B99	Manual	OR			
PG5005	Keg Shell - 1/2bbl	1	EA	A1	Backflush	OR			
PG5007	Keg Cap	1	EA	A1	Backflush	OR			
4	Item					OR			



## Editing a BoM



### Real Life!

Bruno notices his recipe for his IPA needs to be changed. He'll no longer be using Fuggle hops, but rather German Tradition hops. Let's take a look at how he goes about editing his BoM!

Bruno begins by opening his BoM for W1003 (Wort - IPA)

Bill of Materials

Product No.  X Quantity 30 Warehouse   
Product Description  Price List   
BOM Type  Distr. Rule   
Project

#	Type	No.	Description	Quantity	UoM N...	Warehouse	Issue Method	Price List	Unit Price	Total	Comments
1	Item	RM5005	Malt 2-Row Bulk	1,000	lb	A1	Manual	Last Purcha	\$ 0.8200	\$ 820.0000	
2	Item	RM5028	Maris Otter supersack	200	lb	A1	Manual	Last Purcha	\$ 0.8600	\$ 172.0000	
3	Item	RM5024	Malt C-45	100	lb	A1	Manual	Last Purcha	\$ 0.9100	\$ 91.0000	
4	Item	RH5006	Hops - Cascade	50	lb	A1	Manual	Last Purcha	\$ 7.0000	\$ 350.0000	
5	Item	RH5012	Hops - Fuggle	1	lb	A1	Manual	Last Purcha	\$ 5.1142	\$ 5.1142	
6	Item	RH						Last Purcha			

List of Items

Find

#	Item No.	Item Description	Item Group	Process Type	In Stock	Pa...
6	RH5010	Hops - Cluster	RM: Hops	None	800.00	UoM-L
7	RH5011	Hops - Columbus	RM: Hops	None	800.00	UoM-L
8	RH5012	Hops - Fuggle	RM: Hops	None	754.00	UoM-L
9	RH5013	Hops - Galena	RM: Hops	None	800.00	UoM-L
10	RH5014	Hops - German Tradition	RM: Hops	None	790.00	UoM-L
11	RH5015	Hops - Glacier	RM: Hops	None	800.00	UoM-L
12	RH5016	Hops - Golding	RM: Hops	None	799.00	UoM-L
13	RH5017	Hops - Hallertauer Hersbri	RM: Hops	None	899.00	UoM-L
14	RH5018	Hops - Liberty	RM: Hops	None	878.00	UoM-L
15	RH5019	Hops - Magnum	RM: Hops	None	791.25	UoM-L

Choose Cancel New

Product Price \$ 1,438.1142

Update Cancel Update PdOs Procedures Versions

Bruno's next step is to add his new hop variety (German Tradition hops) He searches by item code to bring up his list of items, and once item is found, selects **<Choose>**

Now that the German Tradition hops are added to his BoM, he needs to remove the Fuggle hops

Bill of Materials

Product No.  X Quantity 30 Warehouse   
Product Description  Price List   
BOM Type  Distr. Rule   
Project

#	Type	No.	Description	Quantity	UoM N...	Warehouse	Issue Method	Price List	Unit Price	Total	Comments
1	Item	RM5005	Malt 2-Row Bulk	1,000	lb	A1	Manual	Last Purcha	\$ 0.8200	\$ 820.0000	
2	Item	RM5028	Maris Otter supersack	200	lb	A1	Manual	Last Purcha	\$ 0.8600	\$ 172.0000	
3	Item	RM5024	Malt C-45	100	lb	A1	Manual	Last Purcha	\$ 0.9100	\$ 91.0000	
4	Item	RH5006	Hops - Cascade	50	lb	A1	Manual	Last Purcha	\$ 7.0000	\$ 350.0000	
5	Item	RH5012	Hops - Fuggle	1	lb	A1	Manual	Last Purcha	\$ 5.1142	\$ 5.1142	
6	Item	RH5014	Hops - German Tradition	1	lb	A1	Manual	Last Purcha	\$ 4.3000	\$ 4.3000	
7	Item							Last Purcha			



Bill of Materials

Product No. W1003      X Quantity 30      Warehouse BH01  
Product Description Hops - German Tradition      Price List Last Purchase Price  
BOM Type Production      Distr. Rule      Project

#	Type	No.	Description	Quantity	UoM N...	Warehouse	Issue Method	Price List	Unit Price	Total	Comments
1	Item	RM5005	Malt 2-Row Bulk	1,000	lb	A1	Manual	Last Purcha:	\$ 0.8200	\$ 820.0000	
2	Item	RM5028	Maris Otter supersack	200	lb	A1	Manual	Last Purcha:	\$ 0.8600	\$ 172.0000	
3	Item	RM5024	Malt C-45	100	lb	A1	Manual	Last Purcha:	\$ 0.9100	\$ 91.0000	
4	Item	RH5006	Hops - Cascade	50	lb	A1	Manual	Last Purcha:	\$ 7.0000	\$ 350.0000	
5	Item	RH5012	Hops - Fuggle	1	lb	A1	Manual	Last Purcha:	\$ 5.1142	\$ 5.1142	
6	Item	RH5014		1	lb	A1	Manual	Last Purcha:	\$ 4.3000	\$ 4.3000	
7	Item										

Context menu for row 5:

- Cut
- Copy
- Copy Table
- Paste
- Delete
- Maximize/Restore Grid
- Remove
- Duplicate
- Add Row
- Delete Row**
- Duplicate Row
- Convert To...
- New Activity
- Related Activities
- List of Items

Bruno right clicks on the item he needs to remove, and selects "Delete Row"

To save his changes, Bruno clicks <Update> and is prompted with the BoM Version system message

System Message

Save W1003 BOM as Version #4 ?

Yes No

Update Cancel Update PdOs Procedures Versions      Product Price \$ 47.76

\$ 1,437.3000

Bruno selects a name to save his version as for future reference

Bill of Materials

Prod W1003      X Quantity 30      Warehouse BH01  
Prod      Price List Last Purchase Price  
BOM      Distr. Rule      Project

Save BOM Version

Item W1003      Version# 4  
Name GermanTrad      Comments

Save Cancel

#	Type	No.	Description	Quantity	UoM N...	Warehouse	Issue Method	Price List	Unit Price	Total	Comments
1	Item	RM5005	Malt 2-Row Bulk	1,000	lb	A1	Manual	Last Purcha:	\$ 0.8200	\$ 820.0000	
2	Item	RM5028	Maris Otter supersack	200	lb	A1	Manual	Last Purcha:	\$ 0.8600	\$ 172.0000	
3	Item	RM5024	Malt C-45	100	lb	A1	Manual	Last Purcha:	\$ 0.9100	\$ 91.0000	
4	Item	RH5006	Hops - Cascade	50	lb	A1	Manual	Last Purcha:	\$ 7.0000	\$ 350.0000	
5	Item	RH5012	Hops - Fuggle	1	lb	A1	Manual	Last Purcha:	\$ 4.3000	\$ 4.3000	
6	Item	RH5014									



Update PdO Documents

Doc. No.	Status	Product No.	Product Description	Order Date	Planned Quantity
11461	Released	W1003	Wort - IPA	07/30/2015	30.00
11462	Released	W1003	Wort - IPA	07/30/2015	30.00
11473	Released	W1003	Wort - IPA	08/13/2015	30.00
11477	Released	W1003	Wort - IPA	08/14/2015	30.00
11478	Released	W1003	Wort - IPA	08/14/2015	30.00
11479	Released	W1003	Wort - IPA	08/14/2015	30.00
11485	Released	W1003	Wort - IPA	08/20/2015	30.00
11486	Released	W1003	Wort - IPA	08/20/2015	30.00
11491	Released	W1003	Wort - IPA	08/27/2015	30.00
11492	Released	W1003	Wort - IPA	08/27/2015	30.00
11503	Released	W1003	Wort - IPA	09/08/2015	30.00
11512	Released	W1003	Wort - IPA	09/15/2015	30.00
11513	Released	W1003	Wort - IPA	09/15/2015	30.00
11514	Released	W1003	Wort - IPA	09/15/2015	30.00
11520	Released	W1003	Wort - IPA	09/16/2015	30.00

Process Cancel Select All

Product Price \$ 1,437.3000

OK Cancel Update PdOs Procedures Versions Product Price \$ 47.7670

Bruno would now like to update open Production Orders (the PLAN(s)) with changes to the recipe. He selects <Update PdOs> Then highlights the PdO(s) that need to be updated, and clicks <Process>

11503	Released	W1003	Wort - IPA	09/08/2015	30.00
11512	Released	W1003	Wort - IPA	09/15/2015	30.00
11513	Released	W1003	Wort - IPA	09/15/2015	30.00
11514	Released	W1003	Wort - IPA	09/15/2015	30.00
11520	Released	W1003	Wort - IPA	09/16/2015	30.00

Process Cancel Select All

System Message

Updating Production Orders will cause any data previously saved to selected Production Orders to be overwritten. Do you wish to continue?

Proceed Cancel

Bruno is prompted with a System Message about overwriting selected Production Orders, to which he clicks <Proceed>

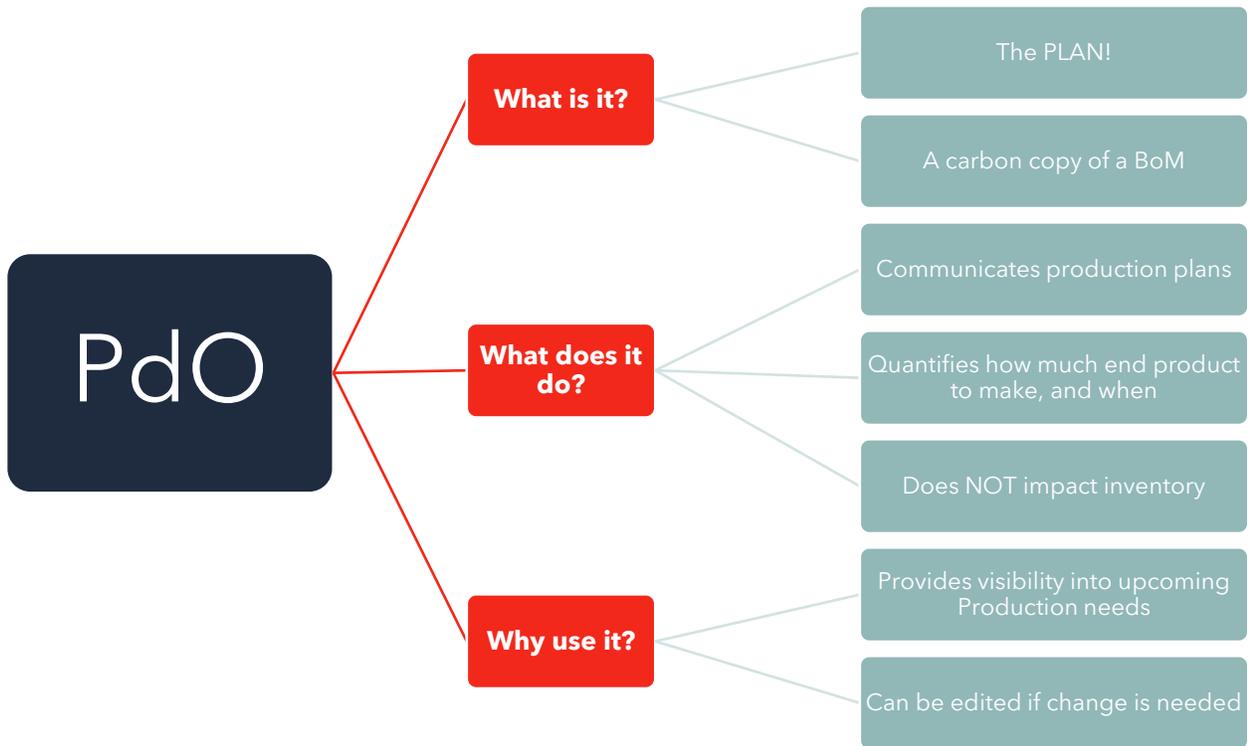


**Real Life!**

Sweet! Bruno just made some edits to his BoM and is ready to find out about the PLAN of action!



# Production order



The screenshot shows a software window titled "Production Order". It features a header section with fields for Type (Standard), Status (Planned), Product No., Product Description, Planned Quantity (1), Warehouse, and Master Prod #. On the right, there are fields for No. (Primary), Order Date, Production Date, Production Time, Due Date, User (sberg), Batch #, Batch Date, and Suff. A central callout box says "Product you're planning to make". Below this is a table with columns: #, Type, No., Description, Base..., Planned..., Issued, Avail..., UoM..., UoM..., Wareho..., Issue Method, Distr. Rule, and WIP Account. A red callout box points to the table with the text "Ingredients that will be consumed". At the bottom, there are "Remarks" and "Pick and Pack Remarks" fields, and buttons for "Add", "Cancel", and "Express".



# Finding a PdO

Modules > Production > Production Order > Find Mode > Search for PdO

Production Order

Type: [ ] Status: [ ] Product No.: W1003

Product Description: [ ]

No.: [ ] Order Date: [ ] Production Date: [ ] Production Time: [ ] Due Date: [ ] User: [ ]

Batch # [ ] Batch Date [ ] Suff [ ]

[New]

List of Production Orders

Find: [ ]  Keep Visible

#	Docu...	Production Order...	Due Date	Item Number	Planned Quantity - Header
290	11492	Standard	08/27/2015	Wort - IPA	30.00
291	11501	Standard	09/08/2015	Wort - IPA	30.00
292	11502	Standard	09/08/2015	Wort - IPA	30.00
293	11503	Standard	09/08/2015	Wort - IPA	30.00
294	11512	Standard	09/15/2015	Wort - IPA	30.00
295	11513	Standard	09/15/2015	Wort - IPA	30.00
296	11514	Standard	09/15/2015	Wort - IPA	30.00
297	11518	Standard	09/16/2015	Wort - IPA	30.00
298	11519	Standard	09/16/2015	Wort - IPA	30.00
299	11520	Standard	09/16/2015	Wort - IPA	30.00
300	11529	Standard	09/01/2016	Wort - IPA	30.00
301	11530	Standard	09/01/2016	Wort - IPA	30.00
302	11535	Standard	09/08/2016	Wort - IPA	30.00
303	11542	Standard	09/08/2016	Wort - IPA	20.00
304	11543	Disassembly	09/08/2016	Wort - IPA	20.00
305	11544	Standard	09/14/2016	Wort - IPA	30.00
306	11545	Standard	09/14/2016	Wort - IPA	30.00

[Choose] [Cancel]

Navigation Tip!

You can also drag and drop the Production Order function into your Common Functions box:

Production Order

Type: Standard Status: Released Product No.: W1003

Product Description: Wort - IPA Planned Quantity: 30 UoM Name: BBL

Warehouse: BH01 Master Prod #: 222

No.: Primary 11544 Order Date: 09/14/2016 Production Date: 09/14/2016 Production Time: 09:28 Due Date: 09/14/2016 User: isberg

Batch # [ ] Batch Date [ ] Suff [ ]

[New] IPA150Training

#	Type	No.	Description	Base ...	Planned...	Issued	Avail...	UoM ...	Wareho...	Issue Method	Distr. Rule	WIP Account	Weight In	Production ...
1	Item	RM5005	Malt 2-Row Bulk	33.33	1,000		-18,804	Manual lb	A1	Manual			0.00	lb
2	Item	RM5028	Maris Otter supersac	6.67	200		2,590	Manual lb	A1	Manual			0.00	lb
3	Item	RM5024	Malt C-45	3.33	100		6,295	Manual lb	A1	Manual			0.00	lb
4	Item	RH5006	Hops - Cascade	1.67	50		14,804	Manual lb	A1	Manual			0.00	lb
5	Item	RH5014	Hops - German Trad	0.03	1		787	Manual lb	A1	Manual			0.00	lb
6	Item													



## Real Life!

Bill is planning out Production for his team on the floor. He's going to review some important fields on an individual PdO for Wort IPA.

Let's take a closer look with Bill



# PdO 411

Status: Set to Planned | Released | Closed

Product you are planning to make

Quantity of end-product

PdO Number

Date of PdO creation

Unit of Measure for quantity

Where will my product reside?

Date of PdO Production (when does it need to occur?)

Master Production Number: Links multiple production orders into a single "run"

PdO Batch #

Copy of BoM!

The screenshot shows a 'Production Order' window. On the left, there are fields for Type (Standard), Status (Released), Product No. (W1003), Product Description (Wort - IPA), Planned Quantity (30), Warehouse (BH01), and Master Prod # (222). On the right, there are fields for No. (11544), Order Date (09/14/2016), Production Date (09/14/2016), Production Time (09:28), Due Date (09/14/2016), User (sberg), and Batch # (IPA150Training). Below these is a table of components with columns for #, Type, No., Description, and various units. At the bottom, there are 'Remarks' and 'Pick and Pack Remarks' fields, and buttons for 'OK', 'Cancel', and 'Express'.

Express = to Create! Make this Plan

**Real Life!**  
Bill likes what he sees. This plan for IPA wort is looking pretty good, and he's ready to get the actual Express process going!





## Worksheets

# Worksheets

**Note!**  
There are 3  
Worksheets

**What are they?**

The ACTION!

Physical manifestation of the Production Order

**What do they do?**

Expresses (Creates) end product

Decrements and Increments inventory as Production occurs

Reflects inventory location, cost and loss in real time

**Why use them?**

Affects TTB

Impacts financials

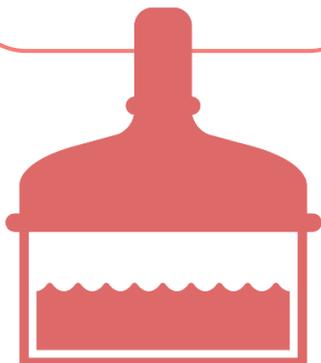
## Finding a Worksheet

Modules > Production > Production Forms > Brewing | Cellar | Packaging Worksheet

### Brewing Worksheet:

Where you go to Express (Create) Wort\*

\*and/or Green Beer if you choose



### Cellar Worksheet:

Where you go to Express (Create) Green Beer/Additional Steps/Brite Beer



### Packaging Worksheet:

Where you go to Express (Create) Packaged Goods





# Worksheet 411



## Real Life!

Dan wants to check on the outstanding plans for the production of IPA so he knows how to plan out his week...

Let's take a closer look at each worksheet with Dan



## Brewing Worksheet

Modules > Production > Production Forms > Brewing Worksheet

**Choose correct**

**Location of Production**

**Production Start & End Dates (as indicated on PdO)**

**Refresh Matrix to update data**

**Choose PdO status to always show Planned/Released**

**Express! Takes you to CREATE the wort**

**Production Orders (PdOs) for Wort - The Plan(s)**

**Ingredients that will be consumed**

**Wort**

**Green Beer**

Production	PdO Selector	S	Tank	Prod #	Item Code	Brand	Batch	MPN	Prod. Date	Prod. Time	Plan Qty	ISSUED:	RECE...
R	BH01	11544	W1003	IPA	IPA150Training	222	09/14/2016	928	30.00				
R	BH01	11545	W1003	IPA	IPA150Training	222	09/14/2016	928	30.00				

Item...	P...	UoM	Item ...	Type	Prod...	Prod...	Stage	Timing
RM51	1.00	lb	Malt 2-R	RM: Mal	lb	1,000.00		
RM51	200.	lb	Maris Ot	RM: Mal	lb	800.00		
RM51	100.	lb	Malt C-4	RM: Mal	lb	200.00	2nd stag	Add C-45 at 20min
RH51	50.0	lb	Hops - C	RM: Ho	lb	50.00		
RH51	1.00	lb	Hops - C	RM: Ho	lb	0.00		

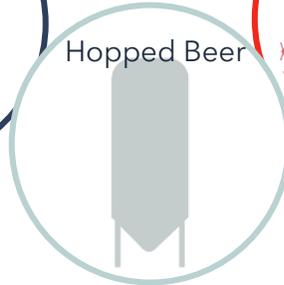


# Cellar Worksheet

Modules > Production > Production Forms > Cellar Worksheet

**Resources**

- Production
  - Production Forms
    - Brewing Worksheet
    - Barrel Management Console
    - Cellar Worksheet**
    - Packaging Worksheet
    - Production Procedure
    - Yeast Schedule
  - Automation
  - Bill of Materials
  - Production Order
  - Procurement Confirmation Wizard
  - Receipt from Production
  - Issue for Production
  - Update Parent Item Prices Globally
  - Production Cost Recalculation Wizard



Choose correct Tab

Location of Production

Production Start & End Dates (as indicated on PdO)

Choose PdO status to always show Planned/Released

Cellar Green Beer

Location: Brewery #1 Start Date: 10/06/2015 End Date: 10/05/2016 Refresh Matrix Status: Planned/Released

**Production**

Express Issue Receipt

Status: Create New Close

**Current Tank Status :**

Warehouse	Item Code	Item Name	Volume	Batch		
01	W1003	Wort - IPA	60.00	IPA145		
01	W1003	Wort - IPA	60.00	IPA147	-385	09/16/2015
01	W1003	Wort - IPA	60.00	IPA148Stest091516	-34	09/01/2016
1	GB1008	Green Beer - Pilsner	90.00	PIL9	-436	07/17/2015
2	GB1004	Green Beer - Stout	180.00	STT13	-430	07/21/2015
F02	GB1010	Green Beer - Oktoberfest	18.00	OKT100	-582	02/09/2015

**Current Production Orders :**

S	Batch	MPN	Production Orde...	Style	Prod Date	Prod Time	Due Date	From Whse	To Whse	Planned Qty	Volume in Tank	Is...
R	IPA150Training	222	11546	Green Beer - IPA	09/14/2016	928	09/21/2016	BH01	F15	60.00		

**Production Order Lines :**

Line Num	Item	Item Name	Whse	Qty	Qty In-stock in Whse
1	W1003	Wort - IPA	BH01	60.00	270.00

Refresh Matrix to update data

Shows tanks and their current liquid volumes!

Express! Takes you to CREATE the Green Beer/Add'l Steps/ Brite Beer

Production Orders (PdOs) for Green Beer/Add'l Steps/Brite Beer - The Plan(s)

Ingredients that will be consumed



# Packaging Worksheet

Modules > Production > Production Forms > Packaging Worksheet

**Production**

- Production Forms
  - Brewing Worksheet
  - Barrel Management Console
  - Cellar Worksheet
  - Packaging Worksheet**
  - Production Procedure
  - Yeast Schedule
- Automation
  - Bill of Materials
  - Production Order
  - Procurement Confirmation Wizard
  - Receipt from Production
  - Is
  - Up



Finished Beer

Production Start & End Dates (as indicated on PdO)

Choose PdO status to always show Planned/Released

Location of Production

Location: Brewery #1 Start Date: 10/06/2015 End Date: 10/05/2016 Refresh Matrix Status: Released

**Current Tank Status :**

Whse	Item Code	Item Name	Batch Received
B01	BB1003	Bright Beer - IPA	09/21/2016
B01	BB1010	Bright Beer - Oktoberfest	03/03/2015
B02	BB1004	Bright Beer - Stout	06/29/2015
B03	BB1012	Bright Beer - Hefeweizen	137.00 HEF107 06/05/2015
B04	BB1001	Bright Beer - Amber Ale	123.43 AMA41 06/17/2015
B05	BB1003	Bright Beer - IPA	194.93 IPA130 06/10/2015
B06	BB1005	Bright Beer - Portlandia Porter	100.00 POR104 07/20/2015
B07	BB1009	Bright Beer - Blonde	53.00 BLD9 04/06/2015

**Current Production Orders :**

S	Batch	MPN	Production Order #	Prod Date	Prod Time	Style	Warehouse	UoM	Planned Qty	Completed Qty	Issued	Received	Remarks
R	0		11549	09/28/2016	13:48	IPA - Keg 1/2 BBL	A1	EA	58.00	0.00			

**Production Order Lines :**

Line Num	Item Code	Item Name	Warehouse	UoM	Planned Qty	Qty In Stock
1	BB1003	Bright Beer - IPA	B15	BBL	29.00	0.00
2	PG5005	Keg Shell - 1/2bb	A1	EA	58.00	5,549.00
3	PG5007	Keg Cap	A1	EA	58.00	100,113.00

Refresh Matrix to update data

Shows tanks and their current liquid volumes!

Production Orders (PdOs) for Packaged goods

Express! Takes you to **CREATE** the Packaged goods

Ingredients that will be consumed



# Express Screen

Modules > Production > Production Forms > Worksheet <Express Button>

**Express Production**

Production Order: 11544 | Planned Qty: 30 | Warehouse: BH01  
 Product Code: W1003 | Receive Qty: 0.00 | Production Date: 09/14/2016  
 Product Name: Wort - IPA | Variance: | Due Date: 09/14/2016  
 Batch ID: IPA150Training | Initials: |

Item Code	Item Name	PlannedQty	WHse	ItemCode	BatchNumber	In Stock	In D	
01. RM5005	Malt 2-Row Bulk	1,000.00	A1	RM5005	LOT#4544	34,665.00	06/03/2015	1,000.00
02. RM5028	Maris Otter supersack	200.00	A1	RM5005	LOT#5154	36,381.00	07/07/2015	0.00
03. RM5024	Malt C-45	100.00	A1	RM5028	LOT#5245	5,990.00	07/07/2015	200.00
04. RH5006	Hops - Cascade	50.00	A1	RM5024	LOT#5444	7,995.00	07/07/2015	100.00
05. RH5014	Hops - German Tradition	1.00	A1	RH5006	LOT#8833	6,018.00	05/21/2015	50.00
			A1	RH5006	LOT#7485	9,866.00	07/23/2015	0.00
			A1	RH5014	LOT#8741	790.00	04/06/2015	1.00

Buttons: Process, Cancel, Refresh

Product being made and quantity received

Ingredients and amounts that are ACTUALLY consumed

**Real Life!**  
Aha! Dan is ready to start brewing some beer now that he knows which functions to utilize within OBEER!



Worksheet

Production Order

Bill of Materials

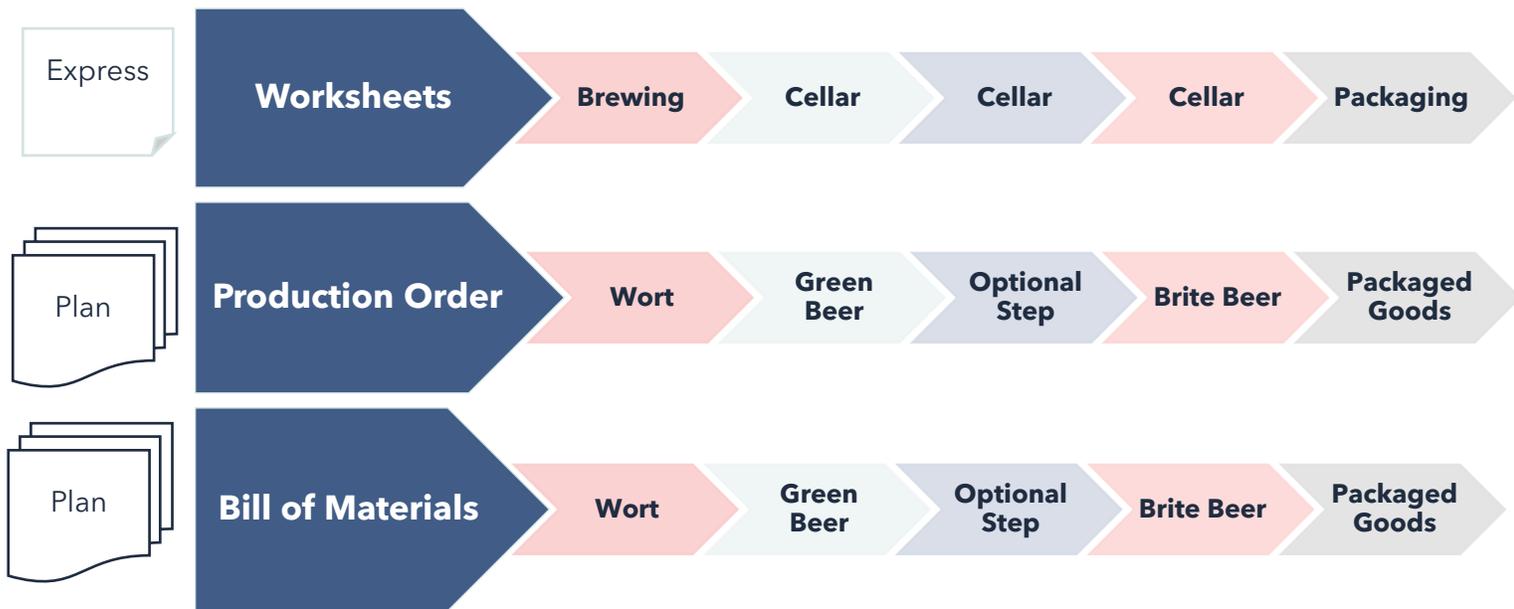


# Production process

## Planning vs. expressing



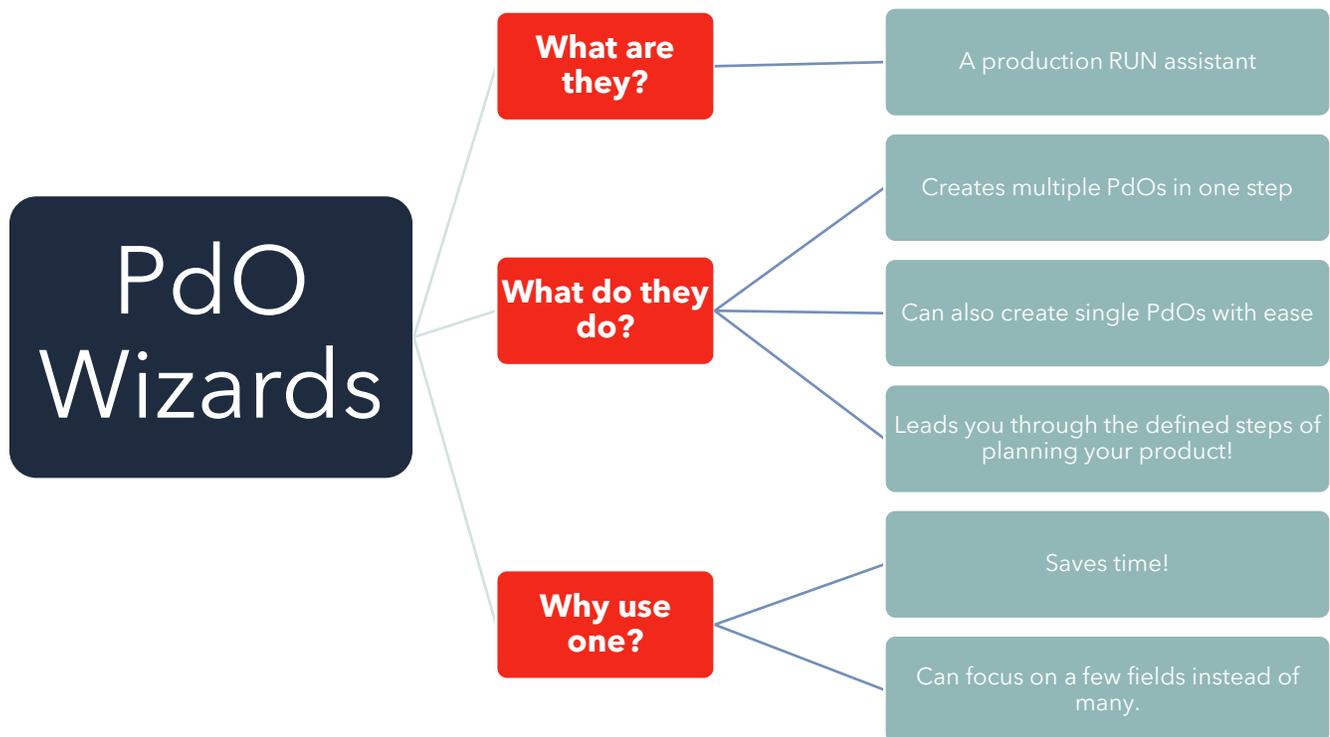
As Bruno, Bill and Dan found out during Production Basics, there are 2 main processes within Production. Planning and Expressing. Bill of Materials (BoMs) and Production Orders (PdOs) take care of the planning stages, and Worksheets (Brewing, Cellar & Packaging) handle the execution/creation of those plans.



**Remember!**  
Each step in production consumes the previous.



## PdO wizards & planning



You will be utilizing PdO Wizards to do the following:  
Planning out your Production...in a fell swoop!